

I. AMENDMENTS

In the Claims:

Please amend claims 1-6 as follows:

1. (Amended) An isolated nucleic acid molecule [comprising] consisting of a coding sequence for an immunogenic *Streptococcus uberis* CAMP factor, wherein the coding sequence is selected from the group consisting of: (a) a sequence encoding an amino acid sequence having at least about 90% identity to the amino acid sequence shown at positions 1 through 256, inclusive, of Figures 4A-4C (SEQ ID NO:2); (b) a sequence encoding an amino acid sequence having at least about 90% identity to the amino acid sequence shown at positions 29 through 256, inclusive, of Figures 4A-4C (SEQ ID NO:2); and (c) immunogenic fragments of (a) or (b) comprising at least 10 contiguous amino acids thereof.

2. (Twice amended) The nucleic acid molecule of claim 1 wherein said coding sequence encodes an amino acid sequence [substantially homologous and functionally equivalent] having at least about 90% identity to the amino acid sequence shown at positions 1 through 256, inclusive, of Figures 4A-4C (SEQ ID [NOS:1-2], or an immunogenic fragment thereof] NO:2).

3. (Twice amended) The nucleic acid molecule of claim 1 wherein said coding sequence encodes an amino acid sequence [substantially homologous and functionally equivalent] having at least about 90% identity to the amino acid sequence shown at positions 29 through 256, inclusive, of Figures 4A-4C (SEQ ID [NOS:1-2], or an immunogenic fragment thereof] NO:2).

4. (Amended) A recombinant vector comprising:

(a) a nucleic acid molecule [according to claim 1] comprising a coding sequence for an immunogenic *Streptococcus uberis* CAMP factor, wherein the coding sequence is selected from the group consisting of: (a) a sequence encoding an amino acid sequence having at least about 90% identity to the amino acid sequence shown at positions 1 through 256, inclusive, of Figures 4A-4C (SEQ ID NO:2); (b) a sequence encoding an amino acid sequence having at least about 90% identity to the amino acid sequence shown at positions 29 through 256, inclusive, of Figures 4A-4C (SEQ ID NO:2); and (c) immunogenic fragments of (a) or (b) comprising at least 10 contiguous amino acids thereof; and

(b) control elements that are operably linked to said nucleic acid molecule whereby said coding sequence can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence.

5. (Amended) A recombinant vector [comprising:

(a) a nucleic acid molecule] according to claim [2] 4, wherein said nucleic acid molecule comprises a coding sequence encoding an amino acid sequence having at least about 90% identity to the amino acid sequence shown at positions 1 through 256, inclusive, of Figures 4A-4C (SEQ ID NO:2)]; and

(b) control elements that are operably linked to said nucleic acid molecule whereby said coding sequence can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence].

6. (Amended) A recombinant vector [comprising:

(a) a nucleic acid molecule] according to claim [3] 4, wherein said nucleic acid molecule comprises a coding sequence encoding an amino acid sequence having at least